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SUR. GEN.'S. LETTER.  
OCT 7 1892

# FIELD NOTES

OF THE SURVEY OF

THE SUBDIVISIONAL LINES

OF

TOWNSHIP NO. 162 NORTH.

OF

RANGE NO. 82 WEST.

Of the Fifth Principal Meridian,

AS SURVEYED BY

THOMAS F. MARSHALL, *U. S. Deputy Surveyor*,

Under his Contract No. 5, dated May 18th., 1891.

Survey commenced August 5th., 1891.

Survey completed August 7th., 1891.

# Names and Duties of Assistants.

|                     |           |
|---------------------|-----------|
| John Harold,        | Chairman. |
| Howard E. Jones,    | Chairman. |
| Arthur H. Lact,     | Flagman.  |
| Charles H. Carr,    | Moundman. |
| Ernest W. Thompson, | Moundman. |
| Charles W. Morris,  | Moundman. |
| Fred C. Hodges,     | Chairman. |
| Edwin H. Wiper,     | Chairman. |
| Louis B. Pickles,   | Flagman.  |
| Ralph H. Baker,     | Moundman. |
| John Lockenbury,    | Moundman. |
| Jim Lockenbury,     | Moundman. |
| John A. Nestor,     | Moundman. |

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# Preliminary Oaths of Assistants.

We,

*John Harold and Howard E. Jones*

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

*for Divisional lines of Sup. 162 N. R. 82 E. of the 5th P. M.*

*John Harold*  
*Howard E. Jones*

, Chairman.

, Chairman.

, Chairman.

, Chairman.

Subscribed and sworn to before me this

*27*

day of

*July*

, 1891.

*Thomas F. Marshall*

*U. S. Deputy Surveyor*

*Arthur D. Lock*

*Giving to dict and in witness I was compelled to administer the above oath myself*

*Thomas F. Marshall*

*Charles H. Carr, Ernest H. Thompson and Charles H. Morris*

do solemnly swear that we will well and truly perform the duties of ~~excess~~ *chain carriers* in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

*divisional lines of Sup. 162 N. R. 82 E. of the 5th P. M.*

Subscribed and sworn to before me this

*27*

day of

*July*

, 1891.

*Thomas F. Marshall*

*U. S. Deputy Surveyor*

*Arthur D. Lock*

*Charles H. Carr*

*Ernest H. Thompson*

*Charles H. Morris*

*Giving to dict and in witness I was compelled to administer the above oath myself*

*Thomas F. Marshall*

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# INDEX DIAGRAM.

Township \_\_\_\_\_ , Range \_\_\_\_\_

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# Preliminary Oaths of Assistants.

We, Fred S. Lodge and Edwin H. Wiper

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the Subdivisional lines of Twp. 16.2 N. R. 22 W. of the 5th P.M.

Fred S. Lodge , Chairman  
Edwin H. Wiper , Chairman  
 , Chairman  
 , Chairman

Subscribed and sworn to before me this 27 day of July, 1891. } Diving to dist and measuring  
Thomas F. Marshall I was compelled to administer  
 the above oath myself  
U. S. Deputy Surveyor Thomas F. Marshall

We, Louis B. Fickler, Ralph H. Baker, John Zocher Perry, John A. Nestor  
 do solemnly swear that we will well and truly perform the duties of excores in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the Subdivisional lines of Twp. 16.2 N. R. 22 W. of the 5th Principal Meridian.

Louis B. Fickler Chairman  
Ralph H. Baker monument  
John Zocher Perry monument  
John A. Nestor monument  
 Subscribed and sworn to before me this 27 day of July, 1891. } Diving to dist and measuring  
Thomas F. Marshall I was compelled to administer  
 the above oath myself.  
U. S. Deputy Surveyor Thomas F. Marshall

Township 162 North. Range 82 West of the 5th Principal Meridian.

Chains.

Survey commenced Aug. 5 '91 executed with a Burt's Improved Solar Compass no number, manufactured by William Young and Sons, Philadelphia Pa. which instrument was tested on the meridian at Bismarck, N.D. and approved by the surveyor general. A Burt's Improved Solar Compass with telescope attachment on sight no number, manufactured by W. and L.E. Gurley Troy, N.Y. was also used. This instrument was taken to Bismarck, but owing to cloudy weather it could not be tested on the meridian there; but I carefully tested it on a private meridian at home and compared it with the Young Solar above referred to which had been approved by the surveyor general and found correct.

Two No. 12 steel wire braced link chains were used for measuring and were daily compared with the Standard. The Standard used was a steel tape which was compared with the Standard at the Surveyor General's office at Bismarck, N. D. and approved by the surveyor general. The Standard was used for no other purpose.

At my camp in sec. 24 of township 162 N. R. 83 W. in Lat. 48° 51' N. on the night of Aug. 7, 1891. I take an observation on Polaris with a Gurley Transit for the purpose of testing my Solar Compasses, after taking the bearing of the Star, I carefully lower the telescope and mark the line in advance of the transit.

Local astronomical mean time of observation

August 7, 1891.....

Add.....

9 h. 05 m.

24

33

05

Local mean time of U.C. of Polaris

Aug. lat., 1891 ..... 16.38.2

Correction for 5 days ..... 19.6

Correct local mean time U.C.

Polaris Aug. 6, 1891....

Difference is hour angle of Polaris...

Subtracted from ....

Argument for Table 2 .....

Azimuth ..... 149° East.

18

16.6

16

48.4

23.

56

7

07.6

I tested my Solar on this meridian and find that it retraces same. My Solars are therefore in adjustment.

NOTE: During the progress of the work in this township I was unable to take an observation on Polaris owing to cloudy weather.

From the cor. to Twp. 161 and 162 N. Rgs. 81 and 82 W. which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the surveyor general

I run

North along the east boundary of sec. 36.

Va. 16° 00' E.

At 40.00 chs. found the  $\frac{1}{4}$  sec. cor.

At 80.00 chs. found the sec. cor.

From the cor. to twps. 161 and 162 N. R. 81 and 82 W.

I run

S. 89° 56' W. along the south boundary of sec. 36.

Va. 16° 00' E.

At 39.98 chs. at a point 10 lks. S. of  $\frac{1}{4}$  sec. cor.

At 79.97 chs. at a point 22 lks. S. of sec. cor.

The true course of the south boundary of sec. 36 is

## Township 162 North, Range 82 West of the 5th Principal Meridian.

## Chains.

N. 89°55'W. and the course of the east boundary is N. As the courses and the chaining practically agree with the original survey. I proceed with the subdivision of this township.

From the cor. to secs. 1, 2, 35 and 36 on the south boundary of the township herein before described  
I run

N. 0°01'W. bet. secs. 35 and 36.

At 8 A.M. Aug. 5 1891 Magnetic declination observed ....

Va. 16°09'E.  
03'

Reduction to mean ....

Va. 16°08'E.

Mean declination ....

40.00 Set a granite stone 12x8x6 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

80.00 Set a granite stone 12x11x7 ins. 8 ins. in the ground for cor. to secs. 25, 26, 35 and 36 marked with 1 notch on E. and S. edges, dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

S. 89°55'E. on a random line bet. secs. 25 and 36.

Va. 16°09'E.

40.00 Set a temporary  $\frac{1}{4}$  sec. cor.

79.92 Intersect east boundary of the township at the cor. to secs. 25, 30, 31 and 36, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the surveyor general.

Thence I run

N. 89°55'W. on a true line bet. secs. 25 and 36.

Va. 16°09'E.

39.96 Set a granite stone 11x9x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

79.92 The cor. to secs. 25, 26, 35 and 36.

Land gently rolling  
Soil 1st rate.

N. 0°01'W. bet. secs. 25 and 26.

Va. 16°09'E.

40.00 Set a granite stone 12x8x6 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

80.00 Set a granite stone 11x10x9 ins. 8 ins. in the ground for cor. to secs. 23, 24, 25 and 26, marked with 1 notch on E. and 2 notches on S. edges, dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.



Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains-

S. 85° 5' E. on a random line bet. secs. 24 and 25. Va. 16° 09' E.

40.00

80.02

Set a temporary  $\frac{1}{4}$  sec. cor.  
Intersected east boundary of the township 12 lks. S. of cor. to secs. 19, 24, 25, and 30, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the surveyor general.  
Thence I run

West on a true line bet. secs. 24 and 25. Va. 16° 09' E.

3.20

Enter meadow, extends 5.00 chs. N. and 3.00 chs. S. of line.

9.00

40.01

Leave meadow, bears N. and S.  
Set a granite stone 12x8x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.  
Center of drain, 30 lks. wide, course S. E.  
The cor. to secs. 23, 24, 25 and 26.

64.00

80.02

Land gently rolling  
Soil 1st rate.

N. 0° 01' W. bet. secs. 23 and 24.

Va. 16° 09' E.

13.00

Enter meadow and drain, extends 40.00 chs. N. W. and 15.00 chs. S. E.

21.00

40.00

Leave meadow, bears N. W. and S. E.  
Set a granite stone 20x11x6 ins. 15 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.  
Center of drain, 20 lks. wide, course S. E.

67.00

80.00

Set a granite stone 19x10x5 ins. 15 ins. in the ground for cor. to secs. 13, 14, 23 and 24 marked with 1 notch on E. and 3 notches on S. edges, dug pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

East on a random line bet. secs. 13 and 24.

Va. 16° 09' E.

40.00

80.00

Set a temporary  $\frac{1}{4}$  sec. cor.  
Intersected east boundary of the township 13 lks. S. of cor. to secs. 13, 18, 19 and 24, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the surveyor general.  
Thence I run

## Township 162 North, Range 82 West of the 6th Principal Meridian.

## Chains-

S-89°55'W. on a true line bet. secs. 13 and 24.

Va-16°09'E.

40.00

Set a granite stone 11x9x8 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

80.00

The cor. to secs. 13, 14, 23 and 24.

Land gently rolling

Soil 1st rate.

Took observation for latitude at this sec. cor. and found it to be 49°51'N.

N-0°01'W. bet. secs. 13 and 14.

Va-16°09'E.

40.00

Set a granite stone 14x11x9 ins. 10 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

80.00

Set a granite stone 11x9x8 ins. 8 ins. in the ground for cor. to secs. 11, 12, 13 and 14 marked with 1 notch on E. and 4 notches on S. edges, dug pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling

Soil 1st rate.

N-89°55'E. on a random line bet. secs. 12 and 13.

Va-16°09'E.

40.00

Set a temporary  $\frac{1}{4}$  sec. cor.

79.96

Intersected east boundary of the township 9 lks. N. of cor. to secs. 7, 12, 13, and 18, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the surveyor general.

Thence I run

S-89°59'W. on a true line bet. secs. 12 and 13.

Va-16°09'E.

39.98

Set a granite stone 11x10x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

79.96

The cor. to secs. 11, 12, 13 and 14.

Land gently rolling

Soil 1st rate.

Township 162 North, Range 22 West of the 5th Principal Meridian.

Chains-

N.0°01'W. bet. secs. 11 and 12.

Va.16°03'E.

Enter meadow in drain, bears N. W. and N. E.

Leave meadow, bears N. W. and E.

Set a granite stone 14x8x7 ins. 10 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

Set a granite stone 12x8x6 ins. 8 ins. in the ground for cor. to secs. 1, 2, 11 and 12, marked with 1 notch on E. and 3 notches on S. edges, dug pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

N.39°59'E. on a random line bet. secs. 1 and 12.

Va.16°00'E.

Set a temporary  $\frac{1}{4}$  sec. cor.

Intersected east boundary of the township 2 lks. N. of cor. to secs. 1, 2, 7 and 12, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the surveyor general. Thence I run

West on a true line bet. secs. 1 and 12.

Va.16°00'E.

Set a granite stone 12x9x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

The cor. to secs. 1, 2, 11 and 12.

Land gently rolling  
Soil 1st rate.

N.0°01'W. on a random line bet. secs. 1 and 2.

Va.16°00'E.

Set a temporary  $\frac{1}{4}$  sec. cor.

Intersected north boundary of the township at the cor. to secs. 1, 2, 36 and 36, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the surveyor general. Thence I run

S.0°01'E. on a true line bet. secs. 1 and 2.

Va.16°00'E.

Set a granite stone 12x11x9 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x

Township 162 North, Range 82 West of the 5th Principal Meridian.

## Chains-

80.04

12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside. The cor. to secs. 1, 2, 11 and 12.

Land gently rolling  
Soil 1st rate-

August 5 1891.

From the cor. to secs. 2, 3, 34 and 35 on the south boundary of the township herein before described.  
I run

N.0°02'W. bet. secs. 34 and 35.

Va.16°03'E.

40.00

Set a granite stone 12x12x6 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18 x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

49.00

Enter meadow, and drain, bears N. " and S. E.

56.00

Leave meadow and drain, bears S. E.

80.00

Set a granite stone 12x8x6 ins. 8 ins. in the ground for cor. to secs. 26, 27, 34 and 35, marked with 2 notches on E. and 1 notch on S. edges, dug pits 15x18x12 ins. in each sec.  $6\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

S.89°56'E. on a random line bet. secs. 26 and 35.

Va.16°03'E.

40.00

Set a temporary  $\frac{1}{4}$  sec. cor.

79.64

Intersected N. and S. line 7 lks. N. of cor. to secs. 26, 26, 35 and 36.  
Thence I run.

N.89°52'W. on a true line bet. secs. 26 and 35.

Va.17°0'E.

8.30

Enter meadow, extends 1.00 chs. N. and 6.00 chs. S. of line.

15.30

Leave meadow, bears N. and S.

39.32

Set a granite stone 12x8x6 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18 x12 ins. E. and W. of stone  $\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

79.32

The cor. to secs. 26, 27, 34 and 35.

Land gently rolling  
Soil 1st rate.

Township 162 North, Range 82 East of the 5th Principal Meridian.

Chains.

N-0°02'W. bet. secs. 23 and 27.

Va-13°09'E.

40.00

Set a granite stone 12x9x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

80.00

Set a granite stone 14x11x5 ins. 10 ins. in the ground for cor. to secs. 22, 23, 26 and 27 marked with 2 notches on E. and S. edges, dug pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

S-89°52'E. on a random line bet. secs. 23 and 26.

Va-16°09'E.

40.00

Set a temporary  $\frac{1}{4}$  sec. cor.

79.62

Intersected N. and S. line 17 lks. S. of cor. to secs. 23, 24, 25 and 26  
Thence I run

N-89°59'W. on a true line bet. secs. 23 and 26.

Va-16°09'E.

39.81

Set a granite stone 6x9x7 ins. 6 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

79.62

The cor. to secs. 22, 23, 26 and 27.

Land gently rolling  
Soil 1st rate.

N-0°02'W. bet. secs. 22 and 23.

Va-16°09'E.

40.00

Set a granite stone 14x12x4 ins. 10 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

80.00

Set a granite stone 10x10x3 ins. 7 ins. in the ground for cor. to secs. 14, 15, 22 and 23, marked with 2 notches on E. and S. edges, dug pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains-

S-89°59'E. on a random line bet. secs. 14 and 23.  
Va-16°09'E.  
40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
79.58 Intersected N. and S. line at the cor. to secs. 13,  
14, 23 and 24.  
Thence I run

N-89°59'W. on a true line bet. secs. 14 and 23.  
Va-16°09'E.  
29.00 Center of drain, 20 lks. wide, course S. E.  
36.79 Set a granite stone 14x9x5 ins. 10 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x  
12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a  
mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.  
79.58 The cor. to secs. 14, 16, 22 and 23.

and gently rolling  
Soil 1st rate.

N-0°02'W. bet. secs. 14 and 15.  
Va-16°09'E.  
40.00 Set a granite stone 11x9x7 ins. 5 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x12  
12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a  
mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.  
65.00 Enter small meadow, and drain, bears N. W. and S. E.  
72.30 Leave meadow, bears N. W. and S. E.  
80.00 Set a granite stone 22x14x3 ins. 13 ins. in the ground  
for cor. to secs. 10, 11, 14 and 15 marked with 2  
notches on E. and 4 notches on S. edges, dug pits 18x  
18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound  
of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

S-89°59'E. on a random line bet. secs. 11 and 14.  
Va-16°33'E.  
40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
79.52 Intersected N. and S. line 10 lks. N. of cor. to secs.  
11, 12, 13 and 14.  
Thence I run

N-89°59'W. on a true line bet. secs. 11 and 14.  
Va-16°09'E.  
17.50 Enter drain, 20 lks. wide, from W. bears N. E. and  
follow same to  
29.80 Leave drain from S. W. bears E.  
39.76 Set a granite stone 12x8x7 ins. 8 ins. in the ground

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Township 162 North, Range 62 West of the 6th Principal Meridian.

Chains-

66-50  
79-52

for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside. Center of same drain 20 lks. wide, course S. E. The cor. to secs. 10, 11, 14 and 15.

Land gently rolling  
Soil 1st rate.

40-00

N.0°02'W. bet. secs. 10 and 11.

Va.13°33'E.

60-00

Set a granite stone 12x12x5 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside. Set a granite stone 12x12x7 ins. 8 ins. in the ground for cor. to secs. 2, 3, 10 and 11 marked with 2 notches on E. and 2 notches on S. edges, dug pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

40-00  
79-52

S.89°56'N. on a random line bet. secs. 2 and 11.

Va.16°00'E.

Set a temporary  $\frac{1}{4}$  sec. cor. Intersected N. and S. line 2 lks. N. of cor. to secs. 1, 2, 11 and 12. Thence I run

N.80°54'W. on a true line bet. secs. 2 and 11.

Va.13°00'E.

39-76

Set a granite stone 14x11x5 ins. 10 ins. in the ground of  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

74-00

Enter meadow and drain, bears N. W. and S. E.

79-00

Leave meadow bears N. W. and S. E.

79-52

The cor. to secs. 2, 3, 10 and 11.

Land gently rolling.  
Soil 1st rate.

40-00  
79-80

N.0°02'W. on a random line bet. secs. 2 and 3.

Va.16°00'E.

Set a temporary  $\frac{1}{4}$  sec. cor. Intersected north boundary of the township 23 lks. W. of cor. to secs. 2, 3, 34 and 35 which is a stone firmly

Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains-

set and properly marked and witnessed as described in the field notes furnished by the surveyor general. Thence I run

S.0°08'W. on a true line bet. secs. 2 and 3.

Va. 16°00'E.

39-80

Set a granite stone 14x8x6 ins. 10 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 12x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

73-60

Enter meadow and drain, bears N. W. and S. E.

79-50

Leave meadow, bears N. W. and S. E.

79-80

The cor. to secs. 2, 3, 10 and 11.

Land gently rolling

Soil 1st rate.

Took observation for Latitude at this sec. cor. and found it to be 48°53' N.

From the cor. to secs. 3, 4, 33 and 34 on the south boundary of the township hereinbefore described I run

N.0°03'W. bet. secs. 33 and 34.

At 2 P.M. August 6th, 1901 Magnetic declination observed ---

Va. 16°00'E.

Reduction to mean ---

Va. 16°05'E.

Mean declination ---

Va. 16°14'E.

40-00

Set a granite stone 11x10x5 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 12x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

80-00

Set a granite stone 14x8x6 ins. 10 ins. in the ground for cor. to secs. 27, 28, 33 and 34 marked with 3 notches on E. and 1 notch on S. edges, dug pits 12x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling

Soil 1st rate.

S.89°55'E. on a random line bet. secs. 27 and 34.

Va. 16°09'E.

40-00

Set a temporary  $\frac{1}{4}$  sec. cor.

79-92

Intersected N. and S. line 42.1ks. S. of cor. to secs. 26, 27, 34 and 35.

Thence I run

S.89°47'W. on a true line bet. secs. 27 and 34.

Va. 16°09'E.

18-00

Enter meadow or drain, bears N. W. and S. E.

24-00

Leave meadow, bears N. W. and S. E.



Township 16N North, Range 82 West of the 5th Principal Meridian.

## Chains.

39-96 Set a granite stone 12x11x9 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; dug pits 18x12 ins. N. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

79-92 The cor. to secs. 27, 28, 33 and 34.

Land gently rolling  
Soil 1st rate.

N.0°03'W. bet. secs. 27 and 28.

Va. 16°09'E.

6-70 Enter meadow or drain, bears E. and W.  
10-20 Leave meadow, bears E. and W.  
15-40 Center of drain, 20 lks. wide, course S. E.  
40-00 Set a granite stone 9x9x9 ins. 6 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x10x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

90-00 Set a granite stone 14x9x7 ins. 10 ins. in the ground for cor. to secs. 21, 22, 27 and 28 marked with 3 notches on N. and 2 notches on S. edges, dug pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

N.89°47'E. on a random line bet. secs. 22 and 27.

Va. 16°09'E.

40-00 Set a temporary  $\frac{1}{4}$  sec. cor.  
79-96 Intersected N. and S. line 2 lks. S. of cor. to secs. 22, 23, 26 and 27.  
Thence I run

S.89°43'W. on a true line bet. secs. 22 and 27.

Va. 16°09'E.

39-98 Set a granite stone 2x6x4 ins. 19 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

79-96 The cor. to secs. 21, 22, 27 and 28.

Land gently rolling  
Soil 1st rate.

Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains.

N. 0° 03' W. bet. secs. 21 and 22.

Va. 16° 00' E.

40.00 Set a granite stone 11x9x9 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

80.00 Set a granite stone 17x13x6 ins. 12 ins. in the ground for cor. to secs. 15, 16, 21 and 22. marked with 3 notches on E. and S. edges, dug pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

N. 89° 46' E. on a random line bet. secs. 15 and 22.

Va. 13° 09' E.

40.00 Set a temporary  $\frac{1}{4}$  sec. cor.

80.00 Intersected N. and S. line 2 lks. S. of cor. to secs. 14, 15, 22 and 23.

Thence I run

S. 89° 45' W. on a true line bet. secs. 15 and 22.

Va. 13° 09' E.

39.50 Enter meadow, extends 6.00 chs. N. and 2.00 chs. S. of line.

40.00 Set a granite stone 9x9x6 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

41.00 Leave meadow, bears N. and S.

80.00 The cor. to secs. 15, 16, 21 and 22.

Land gently rolling  
Soil 1st rate.

N. 0° 03' W. bet. secs. 15 and 16.

Va. 16° 09' E.

31.00 Road, bears NN. E. and S. S. W.

40.00 Set a granite stone 16x9x4 ins. 11 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

80.00 Set a granite stone 12x12x4 ins. 8 ins. in the ground for cor. to secs. 9, 10, 15 and 16 marked with 3 notches on E. and 4 notches on S. edges, dug pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains.

N. 89° 45' E. on a random line bet. secs. 10 and 15.  
Va. 16° 36' E.

40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
80.04 Intersected N. and S. line 5 lks. S. of cor. to secs.  
10, 11, 14 and 15.  
Thence I run

S. 89° 43' W. on a true line bet. secs. 10 and 15.  
Va. 16° 36' E.

7.00 Center of drain, 20 lks. wide, course S. E.  
40.02 Set a granite stone 10x9x3 ins. 7 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x  
12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a  
mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.  
77.00 Road, bears N. and S.  
80.04 The cor. to secs. 9, 10, 15 and 16.

Land gently rolling  
Soil 1st rate.

N. 0° 03' W. bet. secs. 9 and 10.

Va. 17° 40' E.

40.00 Set a granite stone 12x9x9 ins. 8 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x13x  
12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a  
mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.  
80.00 Set a granite stone 12x8x3 ins. 8 ins. in the ground  
for cor. to secs. 3, 4, 9 and 10, marked with 3  
notches on E. and 5 notches on S. edges, dug pits 18x18  
x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound  
of earth 2 ft. high, 5 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

Took observation for latitude at this sec. cor. and  
found it to be 48° 53' N.

N. 89° 43' E. on a random line bet. secs. 3 and 10.  
Va. 16° 00' E.

40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
80.00 Intersected N. and S. line at the cor. to secs.  
2, 3, 10 and 11.  
Thence I run

## Township 162 North, Range 82 West of the 5th Principal Meridian.

## Chains.

- S. 89° 43' W. on a true line bet. secs. 3 and 10. Va. 16° 00' E.
- 40.00 Set a granite stone 14x7x6 ins. 10 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.
- 65.35 Road, bears N. and S.
- 80.00 The cor. to secs. 3, 4, 9 and 10.
- Land gently rolling.  
Soil 1st rate.
- 
- N. 0° 03' W. on a random line bet. secs. 3 and 4. Va. 16° 00' E.
- 40.00 Set a temporary  $\frac{1}{4}$  sec. cor.
- 80.05 Intersected north boundary of the township 17 lks. E. of cor. to secs. 3, 4, 33 and 34, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the surveyor general.
- Thence I run
- S. 0° 10' E. on a true line bet. secs. 3 and 4. Va. 16° 00' E.
- 40.05 Set a granite stone 11x9x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.
- 40.25 Center of drain 30 lks. wide, course E.
- 80.05 The cor. to secs. 3, 4, 9 and 10.
- Land gently rolling  
Soil 1st rate. August 6th., 1891.
- 
- From the cor. to secs. 4, 5, 32 and 33 on the south boundary of the township hereinbefore described I run
- N. 0° 04' W. bet. secs. 32 and 33. Va. 16° 09' E.
- 40.00 Set a granite stone 12x8x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.
- 58.60 Enter meadow, extends 5.00 chs. E. and 3.00 chs. W. of line.
- 64.00 Leave meadow, bears E. and W.
- 80.00 Set a granite stone 16x8x8 ins. 11 ins. in the ground for cor. to secs. 28, 29, 32 and 33 marked with 4

Township 162 North, Range 82 West of the 5th Principal Meridian.

Gains.

notches on E. and 1 notch on S. edges, dug pits 18x18x12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base alongside.

Land gently rolling  
Soil 1st rate.

S. 89° 55' E. on a random line bet. secs. 28 and 33.  
Va. 16° 09' E.

40.00  
79.84 Set a temporary ¼ sec. cor.  
intersected N. and S. line 2 lks. N. of cor. to secs.  
27, 28, 33 and 34.  
Thence I run

N. 89° 54' W. on a true line bet. secs. 28 and 33.  
Va. 16° 09' E.

39.92 Set a granite stone 14x11x9 ins. 10 ins. in the ground  
for ¼ sec. cor. marked ¼ on N. face, dug pits 18x18x12 ins. N. and S. of stone 5½ ft. dist. and raised a mound of earth 1½ ft. high, 3½ ft. base alongside.  
79.84 The cor. to secs. 28, 29, 32 and 33.

Land gently rolling  
Soil 1st rate.

N. 0° 04' W. bet. secs. 28 and 29.  
Va. 16° 06' E.

40.00 Set a granite stone 12x11x5 ins. 8 ins. in the ground  
for ¼ sec. cor. marked ¼ on W. face, dug pits 18x18x12 ins. N. and S. of stone 5½ ft. dist. and raised a mound of earth 1½ ft. high, 3½ ft. base alongside.  
80.00 Set a granite stone 15x8x6 ins. 10 ins. in the ground  
for cor. to secs. 20, 21, 28 and 29 marked with 4.  
notches on E. and 2 notches on S. edges, dug pits 18x18x12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base alongside.

Land gently rolling  
Soil 1st rate.

S. 89° 54' E. on a random line bet. secs. 21 and 28.  
Va. 16° 00' E.

40.00  
79.86 Set a temporary ¼ sec. cor.  
Intersected N. and S. line 16 lks. S. of cor. to secs.  
21, 22, 27 and 28.  
Thence I run

## Township 162 North, Range 82 West of the 5th Principal Meridian.

## Chains-

S.89°59'W. on a true line bet. secs. 21 and 28.

Va.16°00'E.

8.60 Enter meadow, bears N. W. and S. E.

12.00 Leave meadow, bears N. W. and S. E.

39.93 Set a granite stone 11x10x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

79.86 The cor. to secs. 20, 21, 28 and 29.

Land gently rolling

Soil 1st rate.

N.0°04'W. bet. secs. 20 and 21.

Va.16°00'E.

40.00 Set a granite stone 18x7x7 ins. 11 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

72.00 Enter meadow, and drain, bears west and S. E.

79.40 Leave meadow, bears west and S. E.

80.00 Set a granite stone 14x12x4 ins. 10 ins. in the ground for cor. to secs. 16, 17, 20 and 21, marked with 4 notches on E. and 3 notches on S. edges, dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling

Soil 1st rate.

N.89°59'E. on a random line bet. secs. 16 and 21.

Va.16°09'E.

40.00 Set a temporary  $\frac{1}{4}$  sec. cor.

79.88 Intersected N. and S. line 7 lks. N. of cor. to secs. 15, 16, 21 and 22.

Thence I run

N.89°58'W. on a true line bet. secs. 16 and 21.

Va.16°09'E.

2.55 Trail, bears N. and S.

39.94 Set a granite stone 12x9x6 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

79.88 The cor. to secs. 16, 17, 20 and 21.

Land gently rolling

Soil 1st rate.

Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains.

N.0°04'W. bet. secs. 16 and 17.

Va.16°00'E.

40.00

Set a granite stone 14x9x5 ins. 10 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

46.80

Enter meadow, extends 4.00 chs. N. E. and 8.00 chs. S. W.

49.00

Leave meadow, bears N. E. and S. W.

80.00

Set a granite stone 11x9x7 ins. 8 ins. in the ground for cor. to secs. 8, 9, 16 and 17, marked with 4 notches on N. and S. edges, dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

S.89°58'E. on a random line bet. secs. 9 and 16.

Va.16°40'E.

40.00

Set a temporary  $\frac{1}{4}$  sec. cor.

79.98

Intersected N. and S. line 5 lks. S. of cor. to secs. 9, 10, 15 and 16.  
Thence I run

West on a true line bet. secs. 9 and 16.

Va.16°40'E.

39.99

Set a granite stone 14x8x6 ins. 10 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

79.98

The cor. to secs. 8, 9, 16 and 17.

Land gently rolling  
Soil 1st rate.

N.0°04'W. bet. secs. 3 and 9.

Va.16°45'E.

40.00

Set a granite stone 12x8x6 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

80.00

Set a granite stone 13x10x7 ins. 9 ins. in the ground for cor. to secs. 4, 5, 8 and 9, marked with 4 notches on E. and 5 notches on S. edges, dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

## Township 162 North, Range 82 West of the 5th Principal Meridian.

## Chains.

East on a random line bet. secs. 4 and 9. Va. 16°00'E.  
 40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
 80.02 Intersected N. and S. line 3 lks. N. of cor. to secs. 3, 4, 9 and 10.  
 Thence I run  
 N. 89°59'W. on a true line bet. secs. 4 and 9.  
 40.01 Set a granite stone 12x9x7 ins. 8 ins. in the ground  
 for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x  
 12 ins. N. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a  
 mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.  
 80.02 The cor. to secs. 4, 5, 8 and 9.  
 Land gently rolling  
 Soil 1st rate.

N. 0°04'W. on a random line bet. secs. 4 and 5. Va. 16°15'E.  
 40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
 79.83 Intersected N. boundary of the township at the cor. to secs. 4, 5, 32 and 33, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the surveyor general.  
 Thence I run  
 S. 0°04'E. on a true line bet. secs. 4 and 5. Va. 16°15'E.  
 25.40 Center of drain 20 lks. wide, course S. E.  
 39.83 Set a granite stone 14x9x5 ins. 10 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x 12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.  
 79.83 The cor. to secs. 4, 5, 8 and 9.  
 Land gently rolling  
 Soil 1st rate.

From the cor. to secs. 5, 3, 31 and 32 on the south boundary of the township hereinbefore described I run  
 N. 0°05'W. bet. secs. 31 and 32. Va. 16°06'E.  
 40.00 Set a granite stone 14x11x5 ins. 10 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x 12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.  
 80.00 Set a granite stone 12x12x6 ins. 8 ins. in the ground for cor. to secs. 29, 30, 31 and 32, marked with 5



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Township 162 North, Range 82 West of the 5th Principal Meridian.

## Chains.

notches on E. and 1 notch on S. edges, dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

S. 89° 54' E. on a random line bet. secs. 29 and 32.

Va. 16° 06' E.

40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
79.88 Intersected N. and S. line 26 lks. S. of cor. to secs. 28, 29, 32 and 33.  
Thence I run

S. 89° 54' W. on a true line bet. secs. 29 and 32.

Va. 16° 06' E.

39.94 Set a granite stone 11x9x6 ins. 8 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.  
79.88 The cor. to secs. 29, 30, 31 and 32.

Land gently rolling  
Soil 1st rate.

N. 89° 55' W. on a random line bet. secs. 30 and 31.

Va. 16° 06' E.

40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
79.21 Intersected west boundary of the township 17 lks. N. of cor. to secs. 29, 30, 31 and 32 hereinbefore described.  
Thence I run

N. 89° 56' E. on a true line bet. secs. 30 and 31.

Va. 16° 06' E.

39.21 Set a granite stone 12x8x6 ins. 8 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.  
79.21 The cor. to secs. 29, 30, 31 and 32.

Land gently rolling  
Soil 1st rate.

N. 0° 05' W. bet. secs. 29 and 30.

Va. 16° 06' E.

40.00 Set a granite stone 14x13x7 ins. 10 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. N. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a

## Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains-

80.00

mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.  
Set a granite stone  $12 \times 8 \times 6$  ins. 8 ins. in the ground  
for cor. to secs. 19, 20, 29 and 30, marked with 5  
notches on E. and 2 notches on S. edges, dug pits  $18 \times 18$   
 $\times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raised a mound  
of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

Took observation for latitude at this sec. cor. and  
found it to be  $48^{\circ}50'$  N.

N.  $89^{\circ}54'E$ . on a random line bet. secs. 20 and 29.

Va.  $16^{\circ}00'E$ .40.00  
79.94

Set a temporary  $\frac{1}{4}$  sec. cor.  
Intersected N. and S. line 9 lks. S. of cor. to secs.  
20, 21, 28 and 29.  
Thence I run

S.  $89^{\circ}50'W$ . on a true line bet. secs. 20 and 29.

Va.  $16^{\circ}00'E$ .

39.97

Set a granite stone  $14 \times 11 \times 7$  ins. 10 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits  $18 \times 18$   
 $\times 12$  ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a  
mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.  
The cor. to secs. 19, 20, 29 and 30.

79.94

Land gently rolling  
Soil 1st rate.

S.  $89^{\circ}58'W$ . on a random line bet. secs. 19 and 30.

Va.  $16^{\circ}00'E$ .40.00  
79.21

Set a temporary  $\frac{1}{4}$  sec. cor.  
Intersected west boundary of the township 2 lks. S.  
of cor. to secs. 19, 24, 25 and 30 hereinbefore  
described.  
Thence I run

N.  $89^{\circ}58'E$ . on a true line bet. secs. 19 and 30.

Va.  $16^{\circ}00'E$ .

39.21

Set a granite stone  $12 \times 9 \times 9$  ins. 8 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits  $18 \times 18$   
 $\times 12$  ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a  
mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.  
The cor. to secs. 19, 20, 29 and 30

79.21

Land gently rolling  
Soil 1st rate.

Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains-

N.0°05'W. bet. secs. 19 and 20.

Va.16°00'E.

40.00

Set a granite stone 11x8x8 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

80.00

Set a granite stone 14x9x7 ins. 10 ins. in the ground for cor. to secs. 17, 18, 19 and 20, marked with 5 notches on E. and 3 notches on S. edges, dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

N.89°50'E. on a random line bet. secs. 17 and 20.

Va.16°00'E.

40.00

Set a temporary  $\frac{1}{4}$  sec. cor.

79.92

Intersected N. and S. line 10 lks. N. of cor. to secs. 16, 17, 20 and 21.  
Thence I run

S.89°54'W. on a true line bet. secs. 17 and 20.

Va.16°00'E.

22.00

Enter meadow and drain, bears N. W. and S. E.

30.50

Leave meadow, bears N. W. and S. E.

39.96

Set a granite stone 12x8x6 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

79.92

The cor. to secs. 17, 18, 19 and 20.

Land gently rolling  
Soil 1st rate.

S.89°59'W. on a random line bet. secs. 18 and 19.

Va.16°00'E.

40.00

Set a temporary  $\frac{1}{4}$  sec. cor.

79.15

Intersected west boundary of the township 3 lks. S. of cor. to secs. 13, 18, 19 and 24 hereinbefore described.  
Thence I run

East on a true line bet. secs. 18 and 19.

Va.16°00'E.

39.15

Set a granite stone 12x12x5 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

79.15

The cor. to secs. 17, 18, 19 and 20.

Land gently rolling  
Soil 1st rate.

## Township 162 North, Range 82 West of the 5th Principal Meridian.

## Chains.

N. 0° 05' W. bet. secs. 17 and 18.

At 3 P. M. August 7, 1891, Magnetic declination observed ---

Va. 16° 00' E.

Reduction to mean ---

Va. 16° 04' E.

Mean declination ---

Va. 16° 04' E.

- 40.00 Set a granite stone 12x8x6 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x12 ins. E. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.
- 80.00 Set a granite stone 14x10x9 ins. 10 ins. in the ground for cor. to secs. 7, 8, 17 and 18 marked with 5 notches on E. and 4 notches on S. edges, dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

N. 89° 54' E. on a random line bet. secs. 8 and 17.

Va. 16° 45' E.

- 40.00 Set a temporary  $\frac{1}{4}$  sec. cor.
- 79.90 Intersected N. and S. line 15 lks. S. of cor. to secs. 8, 9, 16 and 17.
- Thence I run

S. 89° 48' W. on a true line bet. secs. 8 and 17.

Va. 16° 45' E.

- 39.95 Set a granite stone 11x9x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.
- 73.80 Center of drain, 20 lks. wide, course S. E.
- 79.90 The cor. to secs. 7, 8, 17 and 18.

Land gently rolling  
Soil 1st rate.

West on a random line bet. secs. 7 and 18.

Va. 16° 30' E.

- 40.00 Set a temporary  $\frac{1}{4}$  sec. cor.
- 79.68 Intersected west boundary of the township 13 lks. N. of cor. to secs. 7, 12, 13 and 18 hereinbefore described.
- Thence I run

N. 89° 54' E. on a true line bet. secs. 7 and 18.

Va. 16° 30' E.

- 39.08 Set a granite stone 13x8x6 ins. 9 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

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Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains.

79.08

The cor. to secs. 7, 8, 17 and 18.

Land gently rolling  
Soil 1st rate.

N.0°05'W. bet. secs. 7 and 8.

Va.16°30'E.

3.00

Center of drain, 30 lks. wide, course S. E.

40.00

Set a granite stone 12x9x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and S. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

80.00

Set a granite stone 18x12x11 ins. 12 ins. in the ground for cor. to secs. 5, 6, 7 and 8, marked with 6 notches on E. and S. edges, dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$  ft. base alongside.

Land gently rolling  
Soil 1st rate.

N.89°48'E. on a random line bet. secs. 5 and 8.

Va.16°30'E.

40.00

Set a temporary  $\frac{1}{4}$  sec. cor.

79.88

Intersected N. and S. line at the cor. to secs. 4, 5, 8 and 9.  
Thence I run

S.89°48'W. on a true line bet. secs. 5 and 8.

Va.16°15'E.

39.94

Set a granite stone 12x9x7 ins. 8 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x12 ins. E. and W. of stone 5 $\frac{1}{2}$  ft. dist. and raised a mound of earth 1 $\frac{1}{2}$  ft. high, 3 $\frac{1}{2}$  ft. base alongside.

79.88

The cor. to secs. 5, 6, 7 and 8.

Land gently rolling  
Soil 1st rate.

S.89°54'W. on a random line bet. secs. 6 and 7.

Va.16°30'E.

40.00

Set a temporary  $\frac{1}{4}$  sec. cor.

79.02

Intersected west boundary of the township 16 lks. S of cor. to secs. 1, 6, 7 and 12 hereinbefore described.  
Thence I run

S.89°59'E. on a true line bet. secs. 6 and 7.

Va.16°30'E.

38.00

Enter meadow and drain, bears S. E.

39.02

Set a granite stone 14x12x5 ins. 10 ins. in the ground

Township 162 North, Range 82 West of the 5th Principal Meridian.

## Chains.

for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, dug pits 18x18x  
12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a  
mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.  
40.50 Leave meadow, extends N. W. and S. E.  
79.02 The cor. to secs. 5, 6, 7 and 8.

Land gently rolling  
Soil 1st rate.

N.  $0^{\circ}05'W.$  on a random line bet. secs. 5 and 6.Va.  $16^{\circ}30'E.$ 

40.00 Set a temporary  $\frac{1}{4}$  sec. cor.  
79.96 Intersected north boundary of the township 8 lks. E.  
of cor. to secs. 5, 6, 31 and 32 which is a stone  
firmly set and properly marked and witnessed as des-  
cribed in the field notes furnished by the surveyor  
general.  
Thence I run

S.  $0^{\circ}08'E.$  on a true line bet. secs. 5 and 6.Va.  $16^{\circ}30'E.$ 

39.96 Set a granite stone 16x8x8 ins. 11 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dug pits 18x18x  
12 ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised  
a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.  
79.96 The cor. to secs. 5, 6, 7 and 8.

Land gently rolling  
Soil 1st rate.

August 7th., 1891.

Magnetic Declinations

At 8 A.M. Aug. 5th., 1891, Magnetic declin-  
ation observed ...  
Reduction to mean ....  
Mean declination ...

Va.  $16^{\circ}09'E.$ 

03'

Va.  $16^{\circ}06'E.$ 

At 2 P.M. Aug. 6th., 1891, Magnetic declin-  
ation observed ...  
Reduction to mean ....  
Mean declination ....

Va.  $16^{\circ}09'E.$ 

05'

Va.  $16^{\circ}14'E.$ 

At 3 P.M. Aug. 7th., 1891, Magnetic declin-  
ation observed .....  
Reduction to mean .....  
Mean declination .....

Va.  $16^{\circ}00'E.$ 

04'

Va.  $16^{\circ}04'E.$ 

Mean variation for plats ...

Va.  $16^{\circ}08'E.$

Township 162 North, Range 82 West of the 5th Principal Meridian.

Chains-

GENERAL DESCRIPTION

This township is high, gently rolling prairie and is covered with a fair growth of grass. There is no water in the township. There are a few boulder scattered over the township. With a sufficiency of rain the township would be very productive.

Thomas F. Marshall,

U. S. Deputy Surveyor.

Township 162 North. Range 62 West of the 5th Principal Meridian.

Chains.

Note: This township was surveyed under Contract No. 5 dated May 18, 1891 embracing the subdivision of 31 full townships and 3 fractional townships liability \$9000.00 which contract expires December 1st., 1891. Before commencing the survey I was awarded Contract No. 8 dated June 3, 1891 liability \$5000.00 expiring January 1st. 1892.

These Contracts embraced an amount of survey the execution of which by any one man within the time specified would be a physical impossibility. For this reason and noting the absence in my special instructions of anything prohibiting the use of a Compassman I employed to assist me in the execution of this Contract a Compassman and an additional crew. Their affidavits appear in proper place.

I employed for the position of Compassman Mr. E. C. Chilcott of LaGrace S. Dak. who proved to be an excellent surveyor in all respects. Mr. Chilcott and the crew with him worked from the same camp I did at all times and the work done by them at all times was under my own direct supervision and subject to my rigid examination.

Both crews received instructions and training in the minutest details from me at all times, and were carefully questioned and their work checked by me. The lines run by Mr. Chilcott were checked with lines run by me and by my own instrument while his instrument was always under my care and scrutiny.

The two crews were made up of men of excellent character and peculiar fitness for the business and the utmost harmony prevailed and were operated as a whole to the end of producing good work of a uniform character that this was accomplished a rigid examination of the work will show.

I was present during the entire execution of the survey of this township and the work bears identically the same character that it would or could bear had I run each mile in person having been done according to my minute directions and afterwards critically examined and checked by me.

Owing to circumstances under which the survey of this township has been made I take the liberty of slightly modifying my final affidavit accompanying the same thereby adapting it to this case.

Thomas F. Marshall,

U. S. Deputy Surveyor.



# List of Names.

A list of the names of the individuals employed by Thomas F. Marshall  
 , U. S. Deputy Surveyor, to assist in running, measuring, and  
 marking the lines and corners described in the foregoing field notes of the survey of the subdivisional lines of Twp. 162 N. R. 12  
West of the 5th Principal Meridian, North Dakota

5th Principal Meridian, in North Dakota West of the 5th, showing  
 the respective capacities in which they acted

|                           |                  |
|---------------------------|------------------|
| <u>John David</u>         | <u>Chainman</u>  |
| <u>Howard E. Jones</u>    | <u>Chainman</u>  |
| <u>Arthur B. Pack</u>     | <u>Flagman</u>   |
| <u>Charles H. Morris</u>  | <u>Groundman</u> |
| <u>Ernest H. Thompson</u> | <u>Groundman</u> |
| <u>Charles H. Morris</u>  | <u>Groundman</u> |

## Final Oath of Assistants:

We hereby certify that we assisted Thomas F. Marshall  
 , U. S. Deputy Surveyor, in surveying all  
 the parts or portions of the subdivisional lines of Twp. 162  
N. R. 12.

5th Principal Meridian, North Dakota West of the 5th, as are represented in the  
 foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all  
 respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,  
 according to the instructions furnished by the U. S. Surveyor General for North Dakota

|                           |                  |
|---------------------------|------------------|
| <u>Arthur B. Pack</u>     | <u>Flagman</u>   |
| <u>John David</u>         | <u>Chainman</u>  |
| <u>Howard E. Jones</u>    | <u>Chainman</u>  |
| <u>Charles H. Morris</u>  | <u>Groundman</u> |
| <u>Ernest H. Thompson</u> | <u>Groundman</u> |
| <u>Charles H. Morris</u>  | <u>Groundman</u> |

Subscribed and sworn to before me this 7  
 day of Aug, 1891.

Thomas F. Marshall  
 U. S. Deputy Surveyor.

Being too sick and unconvinced to  
 condescend to administer the above  
 myself. Thomas F. Marshall

## Final Oath of U. S. Deputy Surveyor.

I, \_\_\_\_\_, U. S. Deputy Surveyor, do  
solemnly swear that, in pursuance of instructions received from \_\_\_\_\_, U. S.  
Surveyor General for \_\_\_\_\_, bearing date of the \_\_\_\_\_ day of  
\_\_\_\_\_, 18\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict  
conformity with the instructions furnished by the U. S. Surveyor General for \_\_\_\_\_, the  
surveying manual, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_

\_\_\_\_\_ Meridian, in the \_\_\_\_\_, as are represented in the fore-  
going field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all  
the corners of said survey have been established and perpetuated in strict accordance with the surveying manual,  
printed instructions, the special written instructions of the U. S. Surveyor General for \_\_\_\_\_  
and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey;  
and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress  
approved August 8, 1846.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 18\_\_\_\_.

\_\_\_\_\_  
U. S. Deputy Surveyor.



### Approval.

Office of the U. S. Surveyor General,

\_\_\_\_\_, 18\_\_\_\_.

The foregoing field notes of the survey of \_\_\_\_\_

\_\_\_\_\_ executed by  
\_\_\_\_\_ under his Contract No. \_\_\_\_\_, dated \_\_\_\_\_, 18\_\_\_\_, having been critically  
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are  
hereby approved.

\_\_\_\_\_  
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_  
\_\_\_\_\_, has been correctly copied from the original notes on file in this office.

\_\_\_\_\_  
U. S. Surveyor General.

List of Names.

A list of the names of the individuals employed by

Thomas F. Marshall  
U. S. Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of the Subdivisional  
lines of Sept. 16<sup>th</sup> 1882

Principal Meridian, in North Dakota West of the 5<sup>th</sup>, showing  
the respective capacities in which they acted:

|                       |            |
|-----------------------|------------|
| E. Channing Chilcott, | Compassman |
| Frederic C. Hodges,   | Chainman   |
| Edmund H. Wiper,      | Chainman   |
| Lorne B. Eickles,     | Flagman    |
| Ralph W. Baker,       | Mountman   |
| John Hooker Berry,    | Mountman   |
| John Hooker Berry,    | Mountman   |
| John A. Fleeter,      | Mountman   |

Final Oath of Assistants:

We hereby certify that we assisted

Thomas F. Marshall

U. S. Deputy Surveyor, in surveying all  
those parts or portions of the Subdivisional lines of Sept. 16<sup>th</sup>  
1882.

Principal Meridian, North Dakota West of the 5<sup>th</sup>, as are represented in the  
foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all  
respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,

according to the instructions furnished by the U. S. Surveyor General for North Dakota

|                       |            |
|-----------------------|------------|
| E. Channing Chilcott, | Compassman |
| Lorne B. Eickles,     | Flagman    |
| Frederic C. Hodges,   | Chainman   |
| Edmund H. Wiper,      | Chainman   |
| John Hooker Berry,    | Mountman   |
| Ralph W. Baker,       | Mountman   |
| John Hooker Berry,    | Mountman   |
| John A. Fleeter,      | Mountman   |

Subscribed and sworn to before me this

day of Sept. 1882.

Thomas F. Marshall

U. S. Deputy Surveyor

being to assist any inconvenience  
is compelled to administer the  
oath myself. Thomas F. Marshall

# Final Oath of U. S. Deputy Surveyor.

I, Thomas F. Marshall, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from Erastus A. Williams, U. S. Surveyor General for North Dakota, bearing date of the 18 day of May, 1891, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for North Dakota, the surveying manual, and the laws of the United States, surveyed all those parts or portions of assisted 24 stated in the foregoing field notes, the subdivisions lines of Twp 162 N. of R. 22

Principal Meridian, in the State of North Dakota, part of the 5th as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for North Dakota, and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Thomas F. Marshall  
U. S. Deputy Surveyor.

Subscribed and sworn to before me this 26 day of January, 1891.



L. J. Nichols Clerk of Dist Court  
Dickinson N. D.

## Approval

Office of the U. S. Surveyor General.

Assent 16 October 6, 1894

The foregoing field notes of the survey of The subdivisions of lines of Township 162 North of Range 22 West of the 5th Principal Meridian

Thomas F. Marshall executed by  
under his Contract No. 5, dated May 18, 1891, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Erastus A. Williams  
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in North Dakota, has been correctly copied from the original notes on file in this office.

Erastus A. Williams  
U. S. Surveyor General.